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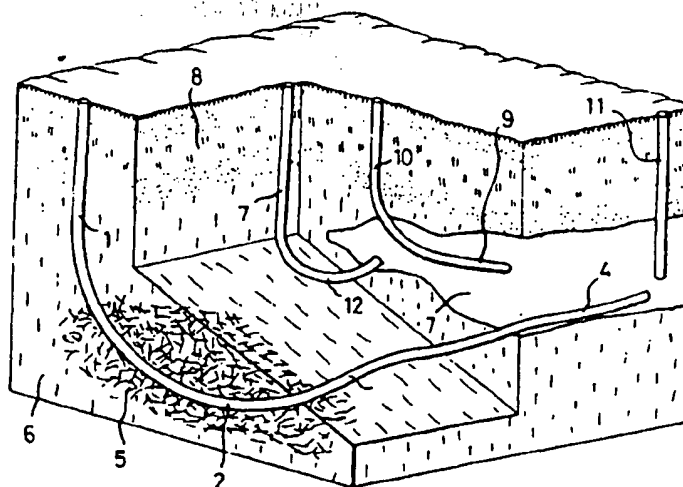
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(54) Title: IMPROVEMENTS IN OR RELATING TO DRILLING AND TO THE EXTRACTION OF FLUIDS



(57) Abstract

A first aspect of the invention provides a method of extracting fluid from a reservoir (7) of said fluid comprising the use of geothermal energy. Preferably, the method comprises the drilling of a well (1) into an area of geothermal energy (6) so as to enable release of the geothermal energy into the fluid reservoir (7). One configuration of wells is disclosed for the extraction of geothermal energy generally. In implementing the first aspect of the present invention it can be particularly beneficial to have the ability to drill horizontal and/or upwardly extending bores from a conventional downward extending well bore. Further aspects of the invention are concerned with the apparatus which enable such well bores to be drilled. These tools include: an adjustable reamer/stabiliser, a thrust calliper, a positive displacement drilling motor, a trajectory control unit, and ultralobe cavity trirotor positive displacement pump/motor, a trirotor mud drilling motor and a compensating underreamer.